



Lizard Analytical Laboratories

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Report Summary 08/05/14

Turbidity Results

LAL Lab#	LAL COC#	LAL ClientID	Client Sample Name	Client Sample Location	MDL (NTU)	DF	Final Result	Units	Removal (%)
14-0959	0724140959	OriginOil	Feed	Western Slope, CO	0.02	1	88.6	NTU	--
14-0962	0724140959	OriginOil	CLEAN-FRAC	Western Slope, CO	0.02	1	0.40	NTU	99.5%

Total Suspended Solids [TSS] Results

LAL Lab#	LAL COC#	LAL ClientID	Client Sample Name	Client Sample Location	MDL (mg/l)	Vol extracted [mL]	Final Result	Units	Removal (%)
14-0959	0724140959	OriginOil	Feed	Western Slope, CO	0.7	300	26.7	mg/L	--
14-0962	0724140959	OriginOil	CLEAN-FRAC	Western Slope, CO	0.4	500	2.6	mg/L	90.3%

Oil & Grease Results

LAL Lab#	LAL COC#	LAL ClientID	Client Sample Name	Client Sample Location	MDL (mg/l)	Vol extracted [mL]	Final Result	Units	Removal (%)
14-0959	0724140959	OriginOil	Feed	Western Slope, CO	2	1050	22	mg/L	--
14-0962	0724140959	OriginOil	CLEAN-FRAC	Western Slope, CO	2	1050	2.1	mg/L	90.5%

5-day BOD (Biological Oxygen Demand) Results

LAL Lab#	LAL COC#	LAL ClientID	Client Sample Name	Client Sample Location	MDL (mg/l)	DF	Final Result	Units	Removal (%)
14-0959	0724140959	OriginOil	Feed	Western Slope, CO	5	300	628	mg/L	--
14-0962	0724140959	OriginOil	CLEAN-FRAC	Western Slope, CO	5	300	316	mg/L	49.7%

Diesel Range Organics [DRO C10-C28] Results

LAL Lab#	LAL COC#	LAL ClientID	Client Sample Name	Client Sample Location	MDL (mg/l)	Vol extracted [mL]	Final Result	Units	Removal (%)
14-0959	0724140959	OriginOil	Feed	Western Slope, CO	0.6	860	40.5	mg/L	--
14-0962	0724140959	OriginOil	CLEAN-FRAC	Western Slope, CO	0.6	960	7.06	mg/L	82.6%

Gasoline Range Organics [GRO C6-C10] Results

LAL Lab#	LAL COC#	LAL ClientID	Client Sample Name	Client Sample Location	MDL (µg/l)	DF	Final Result	Units	Removal (%)
14-0959	0724140959	OriginOil	Feed	Western Slope, CO	150	100	550	mg/L	--
14-0962	0724140959	OriginOil	CLEAN-FRAC	Western Slope, CO	150	100	380	mg/L	30.9%

BTEX (sum of Benzene, Toluene, Ethylbenzene & Xylenes) Results

LAL Lab#	LAL COC#	LAL ClientID	Client Sample Name	Client Sample Location	MDL (µg/l)	DF	Final Result	Units	Removal (%)
14-0959	0724140959	OriginOil	Feed	Western Slope, CO	50	100	181.3	mg/L	--
14-0962	0724140959	OriginOil	CLEAN-FRAC	Western Slope, CO	50	100	134	mg/L	26.1%